

(12) United States Patent

Risan et al.

US 8,438,656 B2 (10) **Patent No.:** (45) **Date of Patent:** *May 7, 2013

(54) METHOD AND SYSTEM FOR PREVENTING UNAUTHORIZED RECORDING OF MEDIA CONTENT ON A MACINTOSH OPERATING **SYSTEM**

(75) Inventors: Hank Risan, Santa Cruz, CA (US);

Edward Vincent Fitzgerald, Santa

Cruz, CA (US)

Assignee: Music Public Broadcasting, Inc., Santa

Cruz, CA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 12/833,839

(22)Filed: Jul. 9, 2010

(65)**Prior Publication Data**

US 2010/0281544 A1 Nov. 4, 2010

Related U.S. Application Data

- (63)Continuation of application No. 10/772,031, filed on Feb. 3, 2004, now Pat. No. 7,802,095.
- (51) Int. Cl.

G06F 7/04 (2006.01)H04L 9/32 (2006.01)

(52) U.S. Cl.

726/32; 713/164

(58) Field of Classification Search 726/26–33; 713/164

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

4,525,599	A *	6/1985	Curran et al 713/190
6,272,283	В1	8/2001	Nguyen
6,298,446		10/2001	Schreiber et al 726/27
6,385,596	B1 *	5/2002	Wiser et al 705/51
6,920,567	B1	7/2005	Doherty et al.
7,181,624	B2 *	2/2007	Asano et al 713/178
7,316,033	B2 *	1/2008	Risan et al 726/33
7,578,002	B2 *	8/2009	Risan et al 726/32
8,024,810	B2 *	9/2011	Saito 726/26
2004/0133801	A1*	7/2004	Pastorelli et al 713/200
2005/0192815	A1	9/2005	Clyde
2007/0098177	A1*	5/2007	Asano et al 380/279

OTHER PUBLICATIONS

Necula, George C., et al., "Safe Kernel Extension Without Run-Time Checking", 2nd Symposium on Operating Systems Design and Implementation; USENIX; 1996; pp. 1-16, (1996),16.

* cited by examiner

Primary Examiner — Tae Kim

ABSTRACT

A method for preventing unauthorized recording of media content on a Macintosh operating system. The present method registers a compliance mechanism on a client system having the Macintosh operating system operating thereon. The compliance mechanism comprises a framework for validating the compliance mechanism on the client system, and a multimedia component opened by the framework. The present method uses the multimedia component for decrypting the media content on the client system. The present method also prevents decryption of the media content on the client system having the Macintosh operating system operating thereon if a portion of the compliance mechanism is invalidated.

22 Claims, 26 Drawing Sheets

